

Occupational Group Summary

SOC Code	Occupational Groups	Estimate employment		Change		Annual average			Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Ave Ann Total Openings		
00-0000	Total, All Occupations	412,140	472,090	59,950	14.5%	6,000	9,800	15,800	\$34,861	\$9.75 - \$20.43
11-0000	Management Occupations	16,890	19,690	2,800	16.6%	280	320	600	\$78,419	\$23.71 - \$45.44
13-0000	Business/Financial Operations Occs	17,270	20,280	3,010	17.4%	300	300	600	\$49,117	\$17.42 - \$28.53
15-0000	Computer & Mathematical Occupations	9,000	11,770	2,770	30.8%	280	120	400	\$53,635	\$19.66 - \$31.62
17-0000	Architecture/Engineering Occupations	7,870	8,520	650	8.3%	70	180	250	\$54,022	\$18.50 - \$31.33
19-0000	Life, Physical, and Social Sci Occs	5,400	6,170	770	14.3%	80	130	210	\$43,663	\$14.52 - \$25.36
21-0000	Community/Social Services Occs	8,970	10,330	1,360	15.2%	140	170	310	\$36,228	\$12.77 - \$21.29
23-0000	Legal Occupations	2,650	3,220	570	21.5%	60	30	90	\$66,677	\$18.66 - \$44.02
25-0000	Ed, Training, & Library Occs	27,470	32,710	5,240	19.1%	520	580	1,100	\$42,116	\$12.44 - \$24.94
27-0000	Arts/Design/Entertainment/Sports/Media	5,980	6,830	850	14.2%	90	110	200	\$38,158	\$11.92 - \$22.42
29-0000	Healthcare Practitioners & Techncl Occs	18,410	23,770	5,360	29.1%	540	350	890	\$54,948	\$17.39 - \$27.84
31-0000	Healthcare Support Occupations	11,970	15,750	3,780	31.6%	380	180	560	\$24,697	\$9.71 - \$13.58
33-0000	Protective Service Occupations	8,650	10,020	1,370	15.8%	140	240	380	\$30,955	\$8.61 - \$20.33
35-0000	Food Preparation & Serving Occupations	33,770	37,780	4,010	11.9%	400	1,340	1,740	\$17,951	\$6.61 - \$9.99
37-0000	Build & Grounds Cleaning/Maint Occs	15,370	17,850	2,480	16.1%	250	310	560	\$22,257	\$8.02 - \$12.20
39-0000	Personal Care and Service Occupations	10,910	13,420	2,510	23.0%	250	260	510	\$21,184	\$7.96 - \$11.01
41-0000	Sales and Related Occupations	36,390	41,680	5,290	14.5%	530	1,240	1,770	\$30,119	\$7.76 - \$17.16
43-0000	Office/Administrative Support Occupation	72,560	77,260	4,700	6.5%	470	1,640	2,110	\$28,237	\$10.25 - \$16.00
45-0000	Farming/Fishing/Forestry Occs	560	610	50	8.9%	10	10	20	\$24,637	\$8.21 - \$13.78
47-0000	Construction/Extraction Occupations	18,150	22,050	3,900	21.5%	390	360	750	\$41,384	\$14.34 - \$24.97
49-0000	Installation/Maint/Repair Occupations	14,320	16,330	2,010	14.0%	200	330	530	\$35,572	\$12.52 - \$21.00
51-0000	Production Occupations	42,220	44,860	2,640	6.3%	260	1,020	1,280	\$28,767	\$10.39 - \$16.32
53-0000	Trans/Material Moving Occupations	27,370	31,190	3,820	14.0%	380	590	970	\$25,836	\$9.27 - \$14.80

(see notes on page 2)

Notes:

- (1) Employment is rounded to the nearest ten, with employment less than five rounded to zero. Totals may not add due to rounding. Employment does not include self-employed, unpaid family workers, or railroad employees.
- (2) Replacements are an estimate of the number of job openings expected because people have permanently left a given occupation. Permanent exits occur if someone dies, retires, or otherwise leaves the labor force. Permanent exits also include openings resulting from someone permanently changing occupations. For example, a person leaves their job as a cashier and becomes a truck driver.
Openings resulting from people changing employers, but staying in the same occupation are not included.
- (3) Total openings are the sum of new jobs and replacements.
- (4) Average Annual Salary: An occupation's average hourly wage is calculated by summing the wages of all employees in a given occupation and then dividing by the total number of employees in that occupation. In most cases, the annual average salary is equal to the average hourly wage multiplied by 2,080.
- (5) Hourly Wage Rate - Middle Range: The middle range identifies the 25th and 75th percentiles in the hourly wage distribution for a given occupation. Fifty percent of the workers in the occupation earn wages in this range. In most cases, the entry level wage is at or below the 25th percentile.

Information is derived using the May 2003 OES Survey, 2002 QCEW and 2002 CES (3/03 Benchmark) data. Unpublished data from the US Bureau of Labor Statistics and US Census Bureau was also used.

To the extent possible, the projections take into account anticipated changes in Wisconsin's economy from 2002 to 2012. It is important to note that unanticipated events may affect the accuracy of these projections.

Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004

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Top 50 Occupations with Most New Jobs

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
29-1111	Registered Nurses	6,650	8,670	2,020	30.4%	200	140	340	Bachelor's or Associate degree (see note 9)	\$50,629	\$20.80 - \$27.60
41-2031	Retail Salespersons	11,690	13,360	1,670	14.3%	170	430	600	Short-term on-the-job training	\$22,151	\$7.50 - \$11.62
31-1012	Nursing Aides/Orderlies/Attendants	5,930	7,280	1,350	22.8%	140	80	220	Short-term on-the-job training	\$23,391	\$9.54 - \$12.92
43-4051	Customer Service Reps	6,720	8,050	1,330	19.8%	130	100	230	Moderate-term on-the-job training	\$28,977	\$10.96 - \$15.96
35-3021	Comb Food Prep/Serv Wrk/Incl Fast	6,290	7,530	1,240	19.7%	120	270	390	Short-term on-the-job training	\$17,239	\$6.92 - \$9.74
37-2011	Janitors/Cleanrs Ex Maids/Hskpng	7,500	8,660	1,160	15.5%	120	140	260	Short-term on-the-job training	\$21,300	\$8.01 - \$11.48
41-2011	Cashiers	9,160	10,290	1,130	12.3%	110	450	560	Short-term on-the-job training	\$16,745	\$6.90 - \$8.92
35-3031	Waiters/Waitresses	7,160	8,130	970	13.5%	100	370	470	Short-term on-the-job training	\$16,783	\$6.05 - \$9.56
43-4171	Receptionists/Info Clerks	3,430	4,380	950	27.7%	100	80	180	Short-term on-the-job training	\$22,434	\$9.22 - \$12.47
53-3032	Truck Drivers/Heavy/Tractor-Trailer	4,460	5,440	980	22.0%	100	70	170	Moderate-term on-the-job training	\$33,823	\$13.27 - \$18.80
41-4012	Sls Reps/Whls/Mfg/Ex Tech/Sci Prod	4,290	5,230	940	21.9%	90	110	200	Moderate-term on-the-job training	\$54,429	\$16.71 - \$32.13
39-9021	Personal and Home Care Aides	2,610	3,480	870	33.3%	90	40	130	Short-term on-the-job training	\$20,001	\$8.78 - \$10.68
15-1051	Computer Systems Analysts	2,720	3,660	940	34.6%	90	30	120	Bachelor's degree	\$56,137	\$21.83 - \$32.27
31-1011	Home Health Aides	1,920	2,830	910	47.4%	90	30	120	Short-term on-the-job training	\$24,361	\$9.30 - \$13.73
47-2031	Carpenters	3,600	4,400	800	22.2%	80	60	140	Long-term on-the-job training	\$41,261	\$15.29 - \$24.94
11-1021	General and Operations Mgrs	4,350	5,020	670	15.4%	70	80	150	Bachelor's degree or more, plus work exp.	\$93,693	\$27.02 - \$56.87
25-9041	Teacher Assts	3,930	4,610	680	17.3%	70	80	150	Associate degree	\$22,202	-
53-3033	Truck Drivers/Light or Delivery Svcs	3,240	3,980	740	22.8%	70	30	100	Short-term on-the-job training	\$22,372	\$7.29 - \$13.03
43-9061	Office Clerks/General	7,520	8,100	580	7.7%	60	170	230	Short-term on-the-job training	\$24,382	\$9.20 - \$13.94
37-2012	Maids/Housekpng Cleaners	4,130	4,750	620	15.0%	60	90	150	Short-term on-the-job training	\$17,612	\$7.49 - \$9.29
49-9042	Maint/Repair Wrks/General	4,040	4,660	620	15.3%	60	80	140	Long-term on-the-job training	\$32,628	\$12.48 - \$18.77
25-2031	Secondary Schl Tchrs Ex Sp/Voc Ed	3,810	4,330	520	13.6%	50	110	160	Bachelor's degree	\$40,306	-
25-2021	Elemen Schl Tchrs Ex Special Ed	4,570	5,050	480	10.5%	50	100	150	Bachelor's degree	\$40,026	-
53-7064	Packers/Packagers/Hand	3,450	3,950	500	14.5%	50	70	120	Short-term on-the-job training	\$20,633	\$8.04 - \$11.64
41-1011	F-L Sups/Mgrs of Rtl Sls Wrks	3,040	3,560	520	17.1%	50	60	110	Work exp. in a related occupation	\$38,635	\$12.32 - \$21.55
13-2011	Accountants and Auditors	2,980	3,450	470	15.8%	50	60	110	Bachelor's degree	\$52,059	\$19.87 - \$29.47
33-3012	Correctional Officers/Jailers	2,760	3,290	530	19.2%	50	60	110	Moderate-term on-the-job training	\$34,536	\$14.73 - \$19.26
37-3011	Landscaping/Grndskpng Wrks	2,490	3,010	520	20.9%	50	50	100	Short-term on-the-job training	\$26,131	\$9.34 - \$15.49
47-2111	Electricians	1,670	2,150	480	28.7%	50	30	80	Long-term on-the-job training	\$46,516	\$17.49 - \$27.29
23-1011	Lawyers	1,640	2,100	460	28.0%	50	20	70	First professional degree	\$86,017	\$30.36 - \$50.35

Top 50 Occupations with Most New Jobs

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
25-2011	Preschool Teachers/Ex Special Ed	1,560	2,030	470	30.1%	50	20	70	Bachelor's degree	\$22,483	\$9.23 - \$11.89
21-1093	Social/Human Service Assts	1,310	1,760	450	34.4%	50	20	70	Moderate-term on-the-job training	\$26,416	\$10.10 - \$14.15
31-9092	Medical Assts	900	1,420	520	57.8%	50	20	70	Moderate-term on-the-job training	\$25,779	\$10.83 - \$13.77
35-2021	Food Prep Wrkrs	2,300	2,700	400	17.4%	40	80	120	Short-term on-the-job training	\$17,182	\$7.08 - \$9.37
51-1011	First-Line Sups/Mgrs of Prdn/Operat Wrkrs	2,730	3,120	390	14.3%	40	60	100	Work exp. in a related occupation	\$47,870	\$17.81 - \$27.24
43-4151	Order Clerks	2,410	2,840	430	17.8%	40	50	90	Short-term on-the-job training	\$24,077	\$9.98 - \$12.82
39-9011	Child Care Wrkrs	1,620	2,040	420	25.9%	40	40	80	Short-term on-the-job training	\$18,351	\$7.38 - \$9.97
51-3023	Slaughterers/Meat Packers	1,590	1,940	350	22.0%	40	40	80	Moderate-term on-the-job training	\$20,281	\$8.76 - \$10.82
47-2061	Construction Laborers	2,160	2,600	440	20.4%	40	30	70	Moderate-term on-the-job training	\$34,628	\$12.64 - \$20.88
47-2152	Plumbers/Pipefitters/Steamfitters	1,340	1,690	350	26.1%	40	30	70	Long-term on-the-job training	\$41,026	\$11.48 - \$24.39
15-1031	Computer Software Engnr's Apps	830	1,210	380	45.8%	40	10	50	Bachelor's degree	\$64,373	\$24.83 - \$36.20
53-7062	Labrs/Frght/Stock/Matrl Movers/Hand	6,230	6,570	340	5.5%	30	200	230	Short-term on-the-job training	\$22,667	\$9.00 - \$12.66
43-3031	Bookkeep/Account/Auditing Clerks	6,200	6,460	260	4.2%	30	120	150	Moderate-term on-the-job training	\$28,878	\$11.20 - \$16.23
43-6011	Executive Secretaries/Admin Assts	4,970	5,270	300	6.0%	30	100	130	Moderate-term on-the-job training	\$33,742	\$13.04 - \$18.76
43-5071	Shipping/Receiving/Traffic Clerks	2,850	3,100	250	8.8%	30	60	90	Short-term on-the-job training	\$25,584	\$10.04 - \$14.05
53-7051	Industrial Truck/Tractor Oprs	2,550	2,870	320	12.5%	30	50	80	Short-term on-the-job training	\$27,336	\$10.70 - \$15.17
51-9111	Packagng/Filling Machn Oprs/Tendr's	2,210	2,520	310	14.0%	30	40	70	Short-term on-the-job training	\$24,224	\$9.67 - \$13.67
29-2061	Licensed Pract/Vocational Nurses	1,770	2,110	340	19.2%	30	40	70	Postsecondary vocational training	\$35,280	\$14.61 - \$19.34
33-3051	Police/Sheriff's Patrol Officers	1,480	1,740	260	17.6%	30	40	70	Long-term on-the-job training	\$41,839	\$17.39 - \$22.98
41-2021	Counter and Rental Clerks	1,020	1,280	260	25.5%	30	40	70	Short-term on-the-job training	\$20,347	\$7.53 - \$11.43
Sub-set totals (top 50)		185,780	218,670	32,890		3,310	4,580	7,890			
Overall totals		412,140	472,090	59,950		6,000	9,800	15,800			
Percent of overall		45%	46%	55%		55%	47%	50%			

Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004

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50 Fastest Growing, with 200+ employment in 2012

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
31-9092	Medical Assts	900	1,420	520	57.8%	50	20	70	Moderate-term on-the-job training	\$25,779	\$10.83 - \$13.77
15-1081	Network Systms/Data Comm Analysts	440	690	250	56.8%	30	10	40	Bachelor's degree	\$60,020	\$21.15 - \$35.07
29-2071	Medical Records/Health Info Techs	550	860	310	56.4%	30	10	40	Associate degree	\$27,299	\$9.94 - \$15.45
15-1032	Computer Soft Engrns Systms Soft	420	640	220	52.4%	20	<5	20	Bachelor's degree	\$58,137	\$21.58 - \$33.18
31-1011	Home Health Aides	1,920	2,830	910	47.4%	90	30	120	Short-term on-the-job training	\$24,361	\$9.30 - \$13.73
15-1031	Computer Software Engrns Apps	830	1,210	380	45.8%	40	10	50	Bachelor's degree	\$64,373	\$24.83 - \$36.20
13-2052	Personal Financial Advisors	160	230	70	43.8%	10	<5	10	Bachelor's degree	\$60,923	\$21.80 - \$35.48
31-9091	Dental Assts	760	1,070	310	40.8%	30	20	50	Moderate-term on-the-job training	\$27,682	\$11.69 - \$15.48
29-1126	Respiratory Therapists	200	280	80	40.0%	10	10	20	Associate degree	\$42,487	\$17.79 - \$22.78
29-2021	Dental Hygienists	480	670	190	39.6%	20	<5	20	Associate degree	\$50,687	\$23.34 - \$26.73
25-1011	Business Teachers, Postsecondary	260	360	100	38.5%	10	10	20	Doctoral degree	\$74,435	-
49-9021	Heating/AC/Refrig Mechs/Instlrs	500	690	190	38.0%	20	10	30	Long-term on-the-job training	\$40,608	\$15.23 - \$24.27
29-2055	Surgical Technologists	240	330	90	37.5%	10	<5	10	Postsecondary vocational training	\$34,967	\$14.90 - \$18.95
25-3021	Self-Enrichment Ed Teachers	600	820	220	36.7%	20	10	30	Work exp. in a related occupation	\$28,444	\$10.34 - \$17.10
29-2056	Veterinary Technologists/Techs	220	300	80	36.4%	10	0	10	Associate degree	\$25,381	\$10.10 - \$13.96
39-9031	Fitness Trainers/Aerobics Instruct	590	800	210	35.6%	20	10	30	Postsecondary vocational training	\$27,016	\$7.74 - \$16.73
29-1123	Physical Therapists	450	610	160	35.6%	20	<5	20	Master's degree	\$55,489	\$23.21 - \$31.22
25-1081	Ed Teachers/Postsec	200	270	70	35.0%	10	10	20	Doctoral degree	\$60,135	-
15-1051	Computer Systems Analysts	2,720	3,660	940	34.6%	90	30	120	Bachelor's degree	\$56,137	\$21.83 - \$32.27
15-1061	Database Administrators	290	390	100	34.5%	10	<5	10	Bachelor's degree	\$56,028	\$20.10 - \$33.19
21-1093	Social/Human Service Assts	1,310	1,760	450	34.4%	50	20	70	Moderate-term on-the-job training	\$26,416	\$10.10 - \$14.15
25-1194	Vocational Ed Teachers/Postsec	680	910	230	33.8%	20	20	40	Work exp. in a related occupation	\$38,526	\$14.94 - \$17.05
25-1071	Health Specialties Teachers Ps	710	950	240	33.8%	20	20	40	Master's degree	\$75,325	-
11-9111	Medical/Health Services Mgrs	630	840	210	33.3%	20	10	30	Bachelor's degree or more, plus work exp.	\$70,692	\$23.34 - \$39.22
39-9021	Personal and Home Care Aides	2,610	3,480	870	33.3%	90	40	130	Short-term on-the-job training	\$20,001	\$8.78 - \$10.68
25-1121	Art/Drama/Music Teachers/Postsec	250	330	80	32.0%	10	10	20	Master's degree	\$54,893	-
29-2041	Emergency Med Techs/Paramedics	660	870	210	31.8%	20	10	30	Postsecondary vocational training	\$21,150	\$6.56 - \$13.69
43-4111	Interviewers/Ex Eligibility/Loan	440	580	140	31.8%	10	10	20	Short-term on-the-job training	\$25,201	\$10.21 - \$13.52
29-1122	Occupational Therapists	380	500	120	31.6%	10	10	20	Bachelor's degree	\$51,912	\$20.90 - \$28.66
47-2051	Cem Masons/Conc Finishrs	540	710	170	31.5%	20	10	30	Moderate-term on-the-job training	\$42,962	\$16.70 - \$24.62

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		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
29-1111	Registered Nurses	6,650	8,670	2,020	30.4%	200	140	340	Bachelor's or Associate degree (see note 9)	\$50,629	\$20.80 - \$27.60
25-2011	Preschool Teachers/Ex Special Ed	1,560	2,030	470	30.1%	50	20	70	Bachelor's degree	\$22,483	\$9.23 - \$11.89
47-2081	Drywall and Ceiling Tile Installers	300	390	90	30.0%	10	10	20	Moderate-term on-the-job training	\$31,910	\$8.52 - \$24.55
11-3021	Computer/Information Systems Mgrs	740	960	220	29.7%	20	10	30	Bachelor's degree or more, plus work exp.	\$85,219	\$33.51 - \$47.52
17-2081	Environmental Engineers	270	350	80	29.6%	10	10	20	Bachelor's degree	\$65,889	\$22.77 - \$38.83
15-1071	Network/Computer Systems Admin	850	1,100	250	29.4%	30	10	40	Bachelor's degree	\$55,813	\$20.71 - \$32.42
25-1123	English Language/Lit Teachers/Ps	170	220	50	29.4%	10	<5	10	Doctoral degree	\$53,030	-
29-1062	Family/General Practitioners	310	400	90	29.0%	10	<5	10	First professional degree	\$172,976	\$64.61 -
23-2011	Paralegals and Legal Assistants	380	490	110	28.9%	10	<5	10	Associate degree	\$36,440	\$13.64 - \$20.66
47-2111	Electricians	1,670	2,150	480	28.7%	50	30	80	Long-term on-the-job training	\$46,516	\$17.49 - \$27.29
11-3071	Transportation/Storage/Distrib Mgrs	210	270	60	28.6%	10	<5	10	Work exp. in a related occupation	\$63,223	\$22.11 - \$35.85
29-1131	Veterinarians	210	270	60	28.6%	10	10	20	First professional degree	\$50,621	\$19.63 - \$28.58
31-9094	Medical Transcriptionists	560	720	160	28.6%	20	10	30	Postsecondary vocational training	\$28,227	\$11.22 - \$15.76
29-2034	Radiologic Technologists/Techs	530	680	150	28.3%	20	10	30	Associate degree	\$40,596	\$16.43 - \$22.70
11-2022	Sales Mgrs	710	910	200	28.2%	20	10	30	Bachelor's degree or more, plus work exp.	\$78,913	\$26.57 - \$45.51
23-1011	Lawyers	1,640	2,100	460	28.0%	50	20	70	First professional degree	\$86,017	\$30.36 - \$50.35
29-2052	Pharmacy Techs	540	690	150	27.8%	20	10	30	Moderate-term on-the-job training	\$25,341	\$10.19 - \$14.24
39-1021	F-L Sups/Mgrs of Persnl Serv Wrks	360	460	100	27.8%	10	10	20	Work exp. in a related occupation	\$29,435	\$10.56 - \$16.18

Also included in the top fifty but not shown to protect the confidentiality of employers are the following occupations:

25-1191	Graduate Teaching Assts	*	*	*	*	10	10	20	Bachelor's degree	*	* *
29-1063	Internists, General	*	*	*	*	10	10	20	First professional degree	*	* *

Sub-set totals (top 50)	38,600	51,920	13,320			1,380	660	2,040			
Overall totals	412,140	472,090	59,950			6,000	9,800	15,800			
Percent of overall	9%	11%	22%			23%	7%	13%			

Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004

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Top 50 Occupations with Most Replacement Openings

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
41-2011	Cashiers	9,160	10,290	1,130	12.3%	110	450	560	Short-term on-the-job training	\$16,745	\$6.90 - \$8.92
41-2031	Retail Salespersons	11,690	13,360	1,670	14.3%	170	430	600	Short-term on-the-job training	\$22,151	\$7.50 - \$11.62
35-3031	Waiters/Waitresses	7,160	8,130	970	13.5%	100	370	470	Short-term on-the-job training	\$16,783	\$6.05 - \$9.56
35-3021	Comb Food Prep/Serv Wrk/Incl Fast	6,290	7,530	1,240	19.7%	120	270	390	Short-term on-the-job training	\$17,239	\$6.92 - \$9.74
53-7062	Labrs/Frght/Stock/Matrl Movers/Hand	6,230	6,570	340	5.5%	30	200	230	Short-term on-the-job training	\$22,667	\$9.00 - \$12.66
43-9061	Office Clerks/General	7,520	8,100	580	7.7%	60	170	230	Short-term on-the-job training	\$24,382	\$9.20 - \$13.94
43-5081	Stock Clerks/Order Fillers	4,290	4,200	-90	-2.1%	<5	160	160	Short-term on-the-job training	\$21,807	\$8.08 - \$12.41
51-2092	Team Assemblers	5,720	5,640	-80	-1.4%	<5	150	150	Moderate-term on-the-job training	\$25,014	\$9.90 - \$14.24
29-1111	Registered Nurses	6,650	8,670	2,020	30.4%	200	140	340	Bachelor's or Associate degree (see note 9)	\$50,629	\$20.80 - \$27.60
37-2011	Janitors/Cleanrs Ex Maids/Hskpng	7,500	8,660	1,160	15.5%	120	140	260	Short-term on-the-job training	\$21,300	\$8.01 - \$11.48
35-3011	Bartenders	3,490	3,690	200	5.7%	20	140	160	Short-term on-the-job training	\$16,645	\$6.59 - \$9.13
43-6014	Secretaries/Ex Legal/Medical/Exec	7,260	6,700	-560	-7.7%	<5	140	140	Moderate-term on-the-job training	\$27,352	\$11.12 - \$15.23
43-3031	Bookkeep/Account/Auditing Clerks	6,200	6,460	260	4.2%	30	120	150	Moderate-term on-the-job training	\$28,878	\$11.20 - \$16.23
41-4012	Sls Reps/Whls/Mfg/Ex Tech/Sci Prod	4,290	5,230	940	21.9%	90	110	200	Moderate-term on-the-job training	\$54,429	\$16.71 - \$32.13
25-2031	Secondary Schl Tchrs Ex Sp/Voc Ed	3,810	4,330	520	13.6%	50	110	160	Bachelor's degree	\$40,306	-
43-4051	Customer Service Reps	6,720	8,050	1,330	19.8%	130	100	230	Moderate-term on-the-job training	\$28,977	\$10.96 - \$15.96
25-2021	Elemen Schl Tchrs Ex Special Ed	4,570	5,050	480	10.5%	50	100	150	Bachelor's degree	\$40,026	-
43-6011	Executive Secretaries/Admin Assts	4,970	5,270	300	6.0%	30	100	130	Moderate-term on-the-job training	\$33,742	\$13.04 - \$18.76
37-2012	Maids/Housekpng Cleaners First-Line Sups/Mgrs-Offc/Admin Supp	4,130	4,750	620	15.0%	60	90	150	Short-term on-the-job training	\$17,612	\$7.49 - \$9.29
43-1011	Wrkrs	4,360	4,600	240	5.5%	20	90	110	Work exp. in a related occupation	\$45,772	\$16.03 - \$26.29
31-1012	Nursing Aides/Orderlies/Attendants	5,930	7,280	1,350	22.8%	140	80	220	Short-term on-the-job training	\$23,391	\$9.54 - \$12.92
43-4171	Receptionists/Info Clerks	3,430	4,380	950	27.7%	100	80	180	Short-term on-the-job training	\$22,434	\$9.22 - \$12.47
11-1021	General and Operations Mgrs	4,350	5,020	670	15.4%	70	80	150	Bachelor's degree or more, plus work exp.	\$93,693	\$27.02 - \$56.87
25-9041	Teacher Assts	3,930	4,610	680	17.3%	70	80	150	Associate degree	\$22,202	-
49-9042	Maint/Repair Wrkrs/General	4,040	4,660	620	15.3%	60	80	140	Long-term on-the-job training	\$32,628	\$12.48 - \$18.77
35-2021	Food Prep Wrkrs	2,300	2,700	400	17.4%	40	80	120	Short-term on-the-job training	\$17,182	\$7.08 - \$9.37
43-3071	Tellers	1,660	1,900	240	14.5%	20	80	100	Short-term on-the-job training	\$20,348	\$8.50 - \$10.92
53-3032	Truck Drivers/Heavy/Tractor-Trailer	4,460	5,440	980	22.0%	100	70	170	Moderate-term on-the-job training	\$33,823	\$13.27 - \$18.80
53-7064	Packers/Packagers/Hand	3,450	3,950	500	14.5%	50	70	120	Short-term on-the-job training	\$20,633	\$8.04 - \$11.64
35-9021	Dishwashers	2,000	2,100	100	5.0%	10	70	80	Short-term on-the-job training	\$14,766	\$6.19 - \$7.97

Top 50 Occupations with Most Replacement Openings

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
35-3022	Cntr Atts/Cafeter/Fd Conc/Coff Shop	1,080	1,220	140	13.0%	10	70	80	Short-term on-the-job training	\$15,474	\$6.88 - \$8.26
47-2031	Carpenters	3,600	4,400	800	22.2%	80	60	140	Long-term on-the-job training	\$41,261	\$15.29 - \$24.94
41-1011	F-L Sups/Mgrs of Rtl Sl Wkrs	3,040	3,560	520	17.1%	50	60	110	Work exp. in a related occupation	\$38,635	\$12.32 - \$21.55
13-2011	Accountants and Auditors	2,980	3,450	470	15.8%	50	60	110	Bachelor's degree	\$52,059	\$19.87 - \$29.47
33-3012	Correctional Officers/Jailers	2,760	3,290	530	19.2%	50	60	110	Moderate-term on-the-job training	\$34,536	\$14.73 - \$19.26
51-1011	First-Line Sups/Mgrs of Prdn/Operat Wkrs	2,730	3,120	390	14.3%	40	60	100	Work exp. in a related occupation	\$47,870	\$17.81 - \$27.24
43-5071	Shipping/Receiving/Traffic Clerks	2,850	3,100	250	8.8%	30	60	90	Short-term on-the-job training	\$25,584	\$10.04 - \$14.05
35-2014	Cooks/Restaurant	1,920	2,160	240	12.5%	20	60	80	Long-term on-the-job training	\$20,286	\$8.14 - \$11.10
25-2022	Middle School Tchrs/Ex Sp./Voc Ed	2,740	2,870	130	4.7%	10	60	70	Bachelor's degree	\$40,434	-
51-9198	Helpers--Production Wkrs	1,970	2,070	100	5.1%	10	60	70	Short-term on-the-job training	\$22,489	\$8.61 - \$12.79
37-3011	Landscaping/Grndskpng Wkrs	2,490	3,010	520	20.9%	50	50	100	Short-term on-the-job training	\$26,131	\$9.34 - \$15.49
43-4151	Order Clerks	2,410	2,840	430	17.8%	40	50	90	Short-term on-the-job training	\$24,077	\$9.98 - \$12.82
53-7051	Industrial Truck/Tractor Oprs	2,550	2,870	320	12.5%	30	50	80	Short-term on-the-job training	\$27,336	\$10.70 - \$15.17
35-1012	F-L Sups/Mgrs Food Prep/Srv Wkrs	2,000	2,230	230	11.5%	20	50	70	Work exp. in a related occupation	\$27,050	\$8.94 - \$15.95
49-3023	Automotive Service Techs/Mechanics	1,900	2,120	220	11.6%	20	50	70	Postsecondary vocational training	\$34,146	\$11.28 - \$20.38
35-2011	Cooks/Fast Food	1,670	1,720	50	3.0%	10	50	60	Short-term on-the-job training	\$17,321	\$7.04 - \$9.28
39-9021	Personal and Home Care Aides	2,610	3,480	870	33.3%	90	40	130	Short-term on-the-job training	\$20,001	\$8.78 - \$10.68
39-9011	Child Care Wkrs	1,620	2,040	420	25.9%	40	40	80	Short-term on-the-job training	\$18,351	\$7.38 - \$9.97
51-3023	Slaughterers/Meat Packers	1,590	1,940	350	22.0%	40	40	80	Moderate-term on-the-job training	\$20,281	\$8.76 - \$10.82
51-9111	Packagng/Filling Machn Oprs/Tendrs	2,210	2,520	310	14.0%	30	40	70	Short-term on-the-job training	\$24,224	\$9.67 - \$13.67
Sub-set totals (top 50)		204,280	231,330	27,050		2,770	5,420	8,190			
Overall totals		412,140	472,090	59,950		6,000	9,800	15,800			
Percent of overall		50%	49%	45%		46%	55%	52%			

Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004

Projections Methodology: Karin Wells, Economist

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Top 50 Occupations with the Most Job Openings

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
41-2031	Retail Salespersons	11,690	13,360	1,670	14.3%	170	430	600	Short-term on-the-job training	\$22,151	\$7.50 - \$11.62
41-2011	Cashiers	9,160	10,290	1,130	12.3%	110	450	560	Short-term on-the-job training	\$16,745	\$6.90 - \$8.92
35-3031	Waiters/Waitresses	7,160	8,130	970	13.5%	100	370	470	Short-term on-the-job training	\$16,783	\$6.05 - \$9.56
35-3021	Comb Food Prep/Serv Wrk/Incl Fast	6,290	7,530	1,240	19.7%	120	270	390	Short-term on-the-job training	\$17,239	\$6.92 - \$9.74
29-1111	Registered Nurses	6,650	8,670	2,020	30.4%	200	140	340	Bachelor's or Associate degree (see note 9)	\$50,629	\$20.80 - \$27.60
37-2011	Janitors/Cleanrs Ex Maids/Hskpng	7,500	8,660	1,160	15.5%	120	140	260	Short-term on-the-job training	\$21,300	\$8.01 - \$11.48
43-9061	Office Clerks/General	7,520	8,100	580	7.7%	60	170	230	Short-term on-the-job training	\$24,382	\$9.20 - \$13.94
43-4051	Customer Service Reps	6,720	8,050	1,330	19.8%	130	100	230	Moderate-term on-the-job training	\$28,977	\$10.96 - \$15.96
53-7062	Labrs/Frght/Stock/Matrl Movers/Hand	6,230	6,570	340	5.5%	30	200	230	Short-term on-the-job training	\$22,667	\$9.00 - \$12.66
31-1012	Nursing Aides/Orderlies/Attendants	5,930	7,280	1,350	22.8%	140	80	220	Short-term on-the-job training	\$23,391	\$9.54 - \$12.92
41-4012	Sls Reps/Whls/Mfg/Ex Tech/Sci Prod	4,290	5,230	940	21.9%	90	110	200	Moderate-term on-the-job training	\$54,429	\$16.71 - \$32.13
43-4171	Receptionists/Info Clerks	3,430	4,380	950	27.7%	100	80	180	Short-term on-the-job training	\$22,434	\$9.22 - \$12.47
53-3032	Truck Drivers/Heavy/Tractor-Trailer	4,460	5,440	980	22.0%	100	70	170	Moderate-term on-the-job training	\$33,823	\$13.27 - \$18.80
25-2031	Secondary Schl Tchrs Ex Sp/Voc Ed	3,810	4,330	520	13.6%	50	110	160	Bachelor's degree	\$40,306	-
43-5081	Stock Clerks/Order Fillers	4,290	4,200	-90	-2.1%	<5	160	160	Short-term on-the-job training	\$21,807	\$8.08 - \$12.41
35-3011	Bartenders	3,490	3,690	200	5.7%	20	140	160	Short-term on-the-job training	\$16,645	\$6.59 - \$9.13
43-3031	Bookkeep/Account/Auditing Clerks	6,200	6,460	260	4.2%	30	120	150	Moderate-term on-the-job training	\$28,878	\$11.20 - \$16.23
51-2092	Team Assemblers	5,720	5,640	-80	-1.4%	<5	150	150	Moderate-term on-the-job training	\$25,014	\$9.90 - \$14.24
25-2021	Elemen Schl Tchrs Ex Special Ed	4,570	5,050	480	10.5%	50	100	150	Bachelor's degree	\$40,026	-
11-1021	General and Operations Mgrs	4,350	5,020	670	15.4%	70	80	150	Bachelor's degree or more, plus work exp.	\$93,693	\$27.02 - \$56.87
37-2012	Maids/Housekpng Cleaners	4,130	4,750	620	15.0%	60	90	150	Short-term on-the-job training	\$17,612	\$7.49 - \$9.29
25-9041	Teacher Assts	3,930	4,610	680	17.3%	70	80	150	Associate degree	\$22,202	-
43-6014	Secretaries/Ex Legal/Medical/Exec	7,260	6,700	-560	-7.7%	<5	140	140	Moderate-term on-the-job training	\$27,352	\$11.12 - \$15.23
49-9042	Maint/Repair Wrkrs/General	4,040	4,660	620	15.3%	60	80	140	Long-term on-the-job training	\$32,628	\$12.48 - \$18.77
47-2031	Carpenters	3,600	4,400	800	22.2%	80	60	140	Long-term on-the-job training	\$41,261	\$15.29 - \$24.94
43-6011	Executive Secretaries/Admin Assts	4,970	5,270	300	6.0%	30	100	130	Moderate-term on-the-job training	\$33,742	\$13.04 - \$18.76
39-9021	Personal and Home Care Aides	2,610	3,480	870	33.3%	90	40	130	Short-term on-the-job training	\$20,001	\$8.78 - \$10.68
53-7064	Packers/Packagers/Hand	3,450	3,950	500	14.5%	50	70	120	Short-term on-the-job training	\$20,633	\$8.04 - \$11.64
15-1051	Computer Systems Analysts	2,720	3,660	940	34.6%	90	30	120	Bachelor's degree	\$56,137	\$21.83 - \$32.27
31-1011	Home Health Aides	1,920	2,830	910	47.4%	90	30	120	Short-term on-the-job training	\$24,361	\$9.30 - \$13.73

Top 50 Occupations with the Most Job Openings

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
35-2021	Food Prep Wrkrs First-Line Sups/Mgrs-Offc/Admin Supp	2,300	2,700	400	17.4%	40	80	120	Short-term on-the-job training	\$17,182	\$7.08 - \$9.37
43-1011	Wrkrs	4,360	4,600	240	5.5%	20	90	110	Work exp. in a related occupation	\$45,772	\$16.03 - \$26.29
41-1011	F-L Sups/Mgrs of Rtl Sl Wrkrs	3,040	3,560	520	17.1%	50	60	110	Work exp. in a related occupation	\$38,635	\$12.32 - \$21.55
13-2011	Accountants and Auditors	2,980	3,450	470	15.8%	50	60	110	Bachelor's degree	\$52,059	\$19.87 - \$29.47
33-3012	Correctional Officers/Jailers	2,760	3,290	530	19.2%	50	60	110	Moderate-term on-the-job training	\$34,536	\$14.73 - \$19.26
53-3033	Truck Drivers/Light or Delivery Srvc First-Line Sups/Mgrs of Prdn/Operat	3,240	3,980	740	22.8%	70	30	100	Short-term on-the-job training	\$22,372	\$7.29 - \$13.03
51-1011	Wrkrs	2,730	3,120	390	14.3%	40	60	100	Work exp. in a related occupation	\$47,870	\$17.81 - \$27.24
37-3011	Landscaping/Grndskpng Wrkrs	2,490	3,010	520	20.9%	50	50	100	Short-term on-the-job training	\$26,131	\$9.34 - \$15.49
43-3071	Tellers	1,660	1,900	240	14.5%	20	80	100	Short-term on-the-job training	\$20,348	\$8.50 - \$10.92
43-5071	Shipping/Receiving/Traffic Clerks	2,850	3,100	250	8.8%	30	60	90	Short-term on-the-job training	\$25,584	\$10.04 - \$14.05
43-4151	Order Clerks	2,410	2,840	430	17.8%	40	50	90	Short-term on-the-job training	\$24,077	\$9.98 - \$12.82
53-7051	Industrial Truck/Tractor Oprs	2,550	2,870	320	12.5%	30	50	80	Short-term on-the-job training	\$27,336	\$10.70 - \$15.17
35-2014	Cooks/Restaurant	1,920	2,160	240	12.5%	20	60	80	Long-term on-the-job training	\$20,286	\$8.14 - \$11.10
47-2111	Electricians	1,670	2,150	480	28.7%	50	30	80	Long-term on-the-job training	\$46,516	\$17.49 - \$27.29
35-9021	Dishwashers	2,000	2,100	100	5.0%	10	70	80	Short-term on-the-job training	\$14,766	\$6.19 - \$7.97
39-9011	Child Care Wrkrs	1,620	2,040	420	25.9%	40	40	80	Short-term on-the-job training	\$18,351	\$7.38 - \$9.97
51-3023	Slaughterers/Meat Packers	1,590	1,940	350	22.0%	40	40	80	Moderate-term on-the-job training	\$20,281	\$8.76 - \$10.82
35-3022	Cntr Atts/Cafeter/Fd Conc/Coff Shop	1,080	1,220	140	13.0%	10	70	80	Short-term on-the-job training	\$15,474	\$6.88 - \$8.26
25-2022	Middle School Tchrs/Ex Sp./Voc Ed	2,740	2,870	130	4.7%	10	60	70	Bachelor's degree	\$40,434	-
47-2061	Construction Laborers	2,160	2,600	440	20.4%	40	30	70	Moderate-term on-the-job training	\$34,628	\$12.64 - \$20.88
Sub-set totals (top 50)		206,240	235,890	29,650		3,020	5,320	8,340			
Overall totals		412,140	472,090	59,950		6,000	9,800	15,800			
Percent of overall		50%	50%	49%		50%	54%	53%			

Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004

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41 Occupations Losing Most Jobs (there are not 50)

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replace-ments	Total Openings			
43-6014	Secretaries/Ex Legal/Medical/Exec	7,260	6,700	-560	-7.7%	<5	140	140	Moderate-term on-the-job training	\$27,352	\$11.12 - \$15.23
43-9022	Word Processors/Typists	580	330	-250	-43.1%	<5	10	10	Moderate-term on-the-job training	\$28,796	\$11.69 - \$16.19
51-2022	Electrical/Electronic Equipmnt Assemblers	770	660	-110	-14.3%	<5	20	20	Short-term on-the-job training	\$24,806	\$9.97 - \$13.58
43-5081	Stock Clerks/Order Fillers	4,290	4,200	-90	-2.1%	<5	160	160	Short-term on-the-job training	\$21,807	\$8.08 - \$12.41
51-5022	Prepress Techs/Wrks	650	560	-90	-13.8%	<5	20	20	Long-term on-the-job training	\$34,765	\$13.97 - \$18.84
43-2021	Telephone Oprs	140	50	-90	-64.3%	<5	<5	<5	Short-term on-the-job training	\$25,246	\$8.93 - \$14.04
51-2092	Team Assemblers	5,720	5,640	-80	-1.4%	<5	150	150	Moderate-term on-the-job training	\$25,014	\$9.90 - \$14.24
43-9011	Computer Oprs	470	390	-80	-17.0%	<5	10	10	Moderate-term on-the-job training	\$26,201	\$10.24 - \$14.01
43-5053	PS Mail Sort/Proc/Proc Machn Oprs	670	600	-70	-10.4%	<5	20	20	Short-term on-the-job training	\$37,422	\$17.42 - \$20.16
43-9021	Data Entry Keyers	990	930	-60	-6.1%	<5	20	20	Moderate-term on-the-job training	\$22,457	\$9.17 - \$12.39
43-4131	Loan Interviewers/Clerks	490	430	-60	-12.2%	<5	10	10	Short-term on-the-job training	\$27,847	\$10.97 - \$15.45
43-4061	Eligibility Interviewers/Gov't Progrms	350	290	-60	-17.1%	<5	10	10	Moderate-term on-the-job training	\$35,019	\$13.31 - \$20.07
27-3010	Announcers	250	200	-50	-20.0%	<5	10	10	Long-term on-the-job training	\$33,402	\$10.94 - \$19.59
41-3041	Travel Agents	210	160	-50	-23.8%	<5	10	10	Postsecondary vocational training	\$29,862	\$10.88 - \$16.32
35-2012	Cooks/Institution/Cafeteria	1,340	1,300	-40	-3.0%	<5	40	40	Long-term on-the-job training	\$22,658	\$9.41 - \$12.37
43-4071	File Clerks	760	720	-40	-5.3%	<5	20	20	Short-term on-the-job training	\$21,050	\$8.39 - \$11.19
43-9051	Mail Clerks/Mail Machn Oprs/Ex Postal Serv	590	550	-40	-6.8%	<5	20	20	Short-term on-the-job training	\$23,934	\$9.68 - \$13.03
51-5011	Bindery Wrks	930	900	-30	-3.2%	<5	30	30	Moderate-term on-the-job training	\$27,535	\$9.79 - \$16.56
49-2022	Telecm Eqp Inst/Reprsr/Ex Line Inst	660	630	-30	-4.5%	<5	10	10	Postsecondary vocational training	\$44,401	\$17.54 - \$25.55
51-9023	Mix/Blend Machn Settrs/Oprs/Tendr	360	330	-30	-8.3%	<5	10	10	Moderate-term on-the-job training	\$28,644	\$11.53 - \$15.55
41-2022	Parts Salespersons	580	560	-20	-3.4%	<5	20	20	Moderate-term on-the-job training	\$26,153	\$9.23 - \$14.69
43-9071	Office Machn Oprs/Ex Computer	250	230	-20	-8.0%	<5	10	10	Short-term on-the-job training	\$23,728	\$8.94 - \$13.06
51-2021	Coil Winders/Tapers/Finishers	180	160	-20	-11.1%	<5	<5	<5	Short-term on-the-job training	\$22,869	\$9.49 - \$12.49
43-5041	Meter Readers/Utilities	110	90	-20	-18.2%	<5	<5	<5	Short-term on-the-job training	\$35,767	\$14.40 - \$20.07
43-2011	Switchboard Oprs/Incl Answrng Svc	700	690	-10	-1.4%	<5	20	20	Short-term on-the-job training	\$22,442	\$9.13 - \$12.26
51-7042	Woodwrk Mchn Set/Op/Tndrs/Ex Saw	380	370	-10	-2.6%	<5	10	10	Moderate-term on-the-job training	\$28,198	\$11.15 - \$16.03
51-4122	Weld/Solder/Braze Mchn Set/Op/Tnd	330	320	-10	-3.0%	<5	10	10	Moderate-term on-the-job training	\$35,168	\$13.36 - \$19.00
43-3061	Procurement Clerks	280	270	-10	-3.6%	<5	10	10	Short-term on-the-job training	\$33,195	\$12.47 - \$19.02
23-2093	Title Exam/Abstractors/Searchers	240	230	-10	-4.2%	<5	<5	<5	Moderate-term on-the-job training	\$30,855	\$12.14 - \$16.82
51-2023	Electromechanical Equipmnt Assemblers	200	190	-10	-5.0%	<5	10	10	Short-term on-the-job training	\$26,693	\$12.11 - \$13.78

41 Occupations Losing Most Jobs (there are not 50)

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replace-ments	Total Openings			
51-7041	Saw Machn Set/Op/Tendrs/Wood	170	160	-10	-5.9%	<5	10	10	Moderate-term on-the-job training	\$24,903	\$10.12 - \$13.56
51-4071	Foundry Mold/Coremakers	150	140	-10	-6.7%	<5	<5	<5	Moderate-term on-the-job training	\$26,334	\$10.33 - \$14.07
43-4041	Credit Authorizers/Checkers/Clerks	140	130	-10	-7.1%	<5	<5	<5	Short-term on-the-job training	\$29,579	\$10.81 - \$16.32
43-4011	Brokerage Clerks	100	90	-10	-10.0%	<5	<5	<5	Moderate-term on-the-job training	\$32,677	\$13.19 - \$17.76
51-4052	Pourers/Casters/Metal	90	80	-10	-11.1%	<5	<5	<5	Moderate-term on-the-job training	\$26,889	\$11.12 - \$14.17
43-9081	Proofreaders/Copy Markers	80	70	-10	-12.5%	<5	<5	<5	Short-term on-the-job training	\$21,861	\$8.43 - \$12.41
51-9051	Furnce/Kln/Ov/Drier/Kettle Op/Tndrs	80	70	-10	-12.5%	<5	<5	<5	Moderate-term on-the-job training	\$27,982	\$12.04 - \$15.18
43-9111	Statistical Assts	50	40	-10	-20.0%	<5	<5	<5	Moderate-term on-the-job training	\$32,436	\$12.82 - \$18.37

Also included in the top 41 but not shown to protect the confidentiality of employers are the following occupations:

41-9041	Telemarketers	*	*	*	*	<5	20	20	Short-term on-the-job training	*	* - *
11-1031	Legislators	*	*	*	*	<5	10	10	Bachelor's degree or more, plus work exp.	*	* - *
49-2021	Radio Mechanics	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	* - *

Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004

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Top 50 Occupations with Most Jobs in 2012

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
41-2031	Retail Salespersons	11,690	13,360	1,670	14.3%	170	430	600	Short-term on-the-job training	\$22,151	\$7.50 - \$11.62
41-2011	Cashiers	9,160	10,290	1,130	12.3%	110	450	560	Short-term on-the-job training	\$16,745	\$6.90 - \$8.92
29-1111	Registered Nurses	6,650	8,670	2,020	30.4%	200	140	340	Bachelor's or Associate degree (see note 9)	\$50,629	\$20.80 - \$27.60
37-2011	Janitors/Cleanrs Ex Maids/Hskpng	7,500	8,660	1,160	15.5%	120	140	260	Short-term on-the-job training	\$21,300	\$8.01 - \$11.48
35-3031	Waiters/Waitresses	7,160	8,130	970	13.5%	100	370	470	Short-term on-the-job training	\$16,783	\$6.05 - \$9.56
43-9061	Office Clerks/General	7,520	8,100	580	7.7%	60	170	230	Short-term on-the-job training	\$24,382	\$9.20 - \$13.94
43-4051	Customer Service Reps	6,720	8,050	1,330	19.8%	130	100	230	Moderate-term on-the-job training	\$28,977	\$10.96 - \$15.96
35-3021	Comb Food Prep/Serv Wrk/Incl Fast	6,290	7,530	1,240	19.7%	120	270	390	Short-term on-the-job training	\$17,239	\$6.92 - \$9.74
31-1012	Nursing Aides/Orderlies/Attendants	5,930	7,280	1,350	22.8%	140	80	220	Short-term on-the-job training	\$23,391	\$9.54 - \$12.92
43-6014	Secretaries/Ex Legal/Medical/Exec	7,260	6,700	-560	-7.7%	<5	140	140	Moderate-term on-the-job training	\$27,352	\$11.12 - \$15.23
53-7062	Labrs/Frght/Stock/Matrl Movers/Hand	6,230	6,570	340	5.5%	30	200	230	Short-term on-the-job training	\$22,667	\$9.00 - \$12.66
43-3031	Bookkeep/Account/Auditing Clerks	6,200	6,460	260	4.2%	30	120	150	Moderate-term on-the-job training	\$28,878	\$11.20 - \$16.23
51-2092	Team Assemblers	5,720	5,640	-80	-1.4%	<5	150	150	Moderate-term on-the-job training	\$25,014	\$9.90 - \$14.24
53-3032	Truck Drivers/Heavy/Tractor-Trailer	4,460	5,440	980	22.0%	100	70	170	Moderate-term on-the-job training	\$33,823	\$13.27 - \$18.80
43-6011	Executive Secretaries/Admin Assts	4,970	5,270	300	6.0%	30	100	130	Moderate-term on-the-job training	\$33,742	\$13.04 - \$18.76
41-4012	Sls Reps/Whls/Mfg/Ex Tech/Sci Prod	4,290	5,230	940	21.9%	90	110	200	Moderate-term on-the-job training	\$54,429	\$16.71 - \$32.13
25-2021	Elemen Schl Tchrs Ex Special Ed	4,570	5,050	480	10.5%	50	100	150	Bachelor's degree	\$40,026	-
11-1021	General and Operations Mgrs	4,350	5,020	670	15.4%	70	80	150	Bachelor's degree or more, plus work exp.	\$93,693	\$27.02 - \$56.87
37-2012	Maids/Housekpng Cleaners	4,130	4,750	620	15.0%	60	90	150	Short-term on-the-job training	\$17,612	\$7.49 - \$9.29
49-9042	Maint/Repair Wrkrs/General	4,040	4,660	620	15.3%	60	80	140	Long-term on-the-job training	\$32,628	\$12.48 - \$18.77
25-9041	Teacher Assts	3,930	4,610	680	17.3%	70	80	150	Associate degree	\$22,202	-
43-1011	First-Line Sups/Mgrs-Offc/Admin Supp Wrkrs	4,360	4,600	240	5.5%	20	90	110	Work exp. in a related occupation	\$45,772	\$16.03 - \$26.29
47-2031	Carpenters	3,600	4,400	800	22.2%	80	60	140	Long-term on-the-job training	\$41,261	\$15.29 - \$24.94
43-4171	Receptionists/Info Clerks	3,430	4,380	950	27.7%	100	80	180	Short-term on-the-job training	\$22,434	\$9.22 - \$12.47
25-2031	Secondary Schl Tchrs Ex Sp/Voc Ed	3,810	4,330	520	13.6%	50	110	160	Bachelor's degree	\$40,306	-
43-5081	Stock Clerks/Order Fillers	4,290	4,200	-90	-2.1%	<5	160	160	Short-term on-the-job training	\$21,807	\$8.08 - \$12.41
53-3033	Truck Drivers/Light or Delivery Srvc	3,240	3,980	740	22.8%	70	30	100	Short-term on-the-job training	\$22,372	\$7.29 - \$13.03
53-7064	Packers/Packagers/Hand	3,450	3,950	500	14.5%	50	70	120	Short-term on-the-job training	\$20,633	\$8.04 - \$11.64
35-3011	Bartenders	3,490	3,690	200	5.7%	20	140	160	Short-term on-the-job training	\$16,645	\$6.59 - \$9.13
15-1051	Computer Systems Analysts	2,720	3,660	940	34.6%	90	30	120	Bachelor's degree	\$56,137	\$21.83 - \$32.27

Top 50 Occupations with Most Jobs in 2012

SOC Code	Occupational Title	Estimate employment		Change		Annual average			Typical education or training path	Annual average wage	Middle 50 percent hourly wage range
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings			
41-1011	F-L Sups/Mgrs of Rtl Sl Wkrs	3,040	3,560	520	17.1%	50	60	110	Work exp. in a related occupation	\$38,635	\$12.32 - \$21.55
39-9021	Personal and Home Care Aides	2,610	3,480	870	33.3%	90	40	130	Short-term on-the-job training	\$20,001	\$8.78 - \$10.68
13-2011	Accountants and Auditors	2,980	3,450	470	15.8%	50	60	110	Bachelor's degree	\$52,059	\$19.87 - \$29.47
33-3012	Correctional Officers/Jailers	2,760	3,290	530	19.2%	50	60	110	Moderate-term on-the-job training	\$34,536	\$14.73 - \$19.26
51-1011	First-Line Sups/Mgrs of Prdn/Operat Wkrs	2,730	3,120	390	14.3%	40	60	100	Work exp. in a related occupation	\$47,870	\$17.81 - \$27.24
43-5071	Shipping/Receiving/Traffic Clerks	2,850	3,100	250	8.8%	30	60	90	Short-term on-the-job training	\$25,584	\$10.04 - \$14.05
37-3011	Landscaping/Grndskpng Wkrs	2,490	3,010	520	20.9%	50	50	100	Short-term on-the-job training	\$26,131	\$9.34 - \$15.49
25-2022	Middle School Tchrs/Ex Sp./Voc Ed	2,740	2,870	130	4.7%	10	60	70	Bachelor's degree	\$40,434	-
53-7051	Industrial Truck/Tractor Oprs	2,550	2,870	320	12.5%	30	50	80	Short-term on-the-job training	\$27,336	\$10.70 - \$15.17
43-4151	Order Clerks	2,410	2,840	430	17.8%	40	50	90	Short-term on-the-job training	\$24,077	\$9.98 - \$12.82
31-1011	Home Health Aides	1,920	2,830	910	47.4%	90	30	120	Short-term on-the-job training	\$24,361	\$9.30 - \$13.73
35-2021	Food Prep Wkrs	2,300	2,700	400	17.4%	40	80	120	Short-term on-the-job training	\$17,182	\$7.08 - \$9.37
47-2061	Construction Laborers	2,160	2,600	440	20.4%	40	30	70	Moderate-term on-the-job training	\$34,628	\$12.64 - \$20.88
51-9111	Packagng/Filling Machn Oprs/Tendr	2,210	2,520	310	14.0%	30	40	70	Short-term on-the-job training	\$24,224	\$9.67 - \$13.67
35-1012	F-L Sups/Mgrs Food Prep/Srv Wkrs	2,000	2,230	230	11.5%	20	50	70	Work exp. in a related occupation	\$27,050	\$8.94 - \$15.95
35-2014	Cooks/Restaurant	1,920	2,160	240	12.5%	20	60	80	Long-term on-the-job training	\$20,286	\$8.14 - \$11.10
47-2111	Electricians	1,670	2,150	480	28.7%	50	30	80	Long-term on-the-job training	\$46,516	\$17.49 - \$27.29
49-3023	Automotive Service Techs/Mechanics	1,900	2,120	220	11.6%	20	50	70	Postsecondary vocational training	\$34,146	\$11.28 - \$20.38
29-2061	Licensed Pract/Vocational Nurses	1,770	2,110	340	19.2%	30	40	70	Postsecondary vocational training	\$35,280	\$14.61 - \$19.34
35-9021	Dishwashers	2,000	2,100	100	5.0%	10	70	80	Short-term on-the-job training	\$14,766	\$6.19 - \$7.97
Sub-set totals (top 50)		208,170	237,770	29,600		3,010	5,270	8,280			
Overall totals		412,140	472,090	59,950		6,000	9,800	15,800			
Percent of overall		51%	50%	49%		50%	54%	52%			

Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004

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Education or training path for occupations in South Central WDA

Typical education or training path	Number of Occupations included	Estimate employment		Change		Annual average		
		2002	2012	Numeric	Percent	New Jobs	Replacements	Total Openings
All occupations	745	412,150	472,100	59,950	14.5%	6,000	9,840	15,840
Associate degree	36	12,830	15,650	2,820	22.0%	280	230	510
Bachelor's degree	107	61,150	73,060	11,910	19.5%	1,190	1,190	2,380
Master's degree	37	9,760	11,300	1,540	15.8%	150	210	360
First professional degree	16	4,310	5,460	1,150	26.7%	120	70	190
Doctoral degree	40	3,720	4,780	1,060	28.5%	110	90	200
Long-term on-the-job training	81	30,760	35,130	4,370	14.2%	440	670	1,110
Moderate-term on-the-job training	170	86,850	95,890	9,040	10.4%	900	1,820	2,720
Short-term on-the-job training	136	148,190	167,810	19,620	13.2%	1,960	4,420	6,380
Bachelor's degree or more, plus work exp.	30	15,250	17,730	2,480	16.3%	250	280	530
Work exp. in a related occupation	42	23,400	26,800	3,400	14.5%	340	500	840
Postsecondary vocational training	50	15,930	18,490	2,560	16.1%	260	360	620

Notes:

- (1) **Employment** is rounded to the nearest ten. Totals may not add due to rounding. Employment does not include self-employed, unpaid family workers, or railroad employees.
- (2) **Replacements** are an estimate of the number of job openings expected because people have permanently left a given occupation. Permanent exits occur if someone dies, retires, or otherwise leaves the labor force. Permanent exits also include openings resulting from someone permanently changing occupations. For example, a person leaves their job as a cashier and becomes a truck driver.
Openings resulting from people changing employers, but staying in the same occupation are not included.
- (3) **Total** openings are the sum of new jobs and replacements.
- (4) **Typical Education and Training Path** gives a general indication of the education or training typically needed in the occupation.

There may be other pathways into the occupation, as well as additional educational, training, or licensing requirements.

Short-Term On-the-Job Training: These occupations require no more than one month of on-the-job training and the training usually happens at the workplace.

Moderate-Term On-the-Job Training: Training for these occupations usually occurs at the workplace and lasts from one to twelve months.

Long-Term On-the-Job Training: These occupations require more than one year of on-the-job training, or combined work experience and classroom instruction.

Work Experience in Related Occupation: Occupations in this category require skills and experience gained in other jobs.

Postsecondary Vocational Training: These formal training programs last from a few weeks to more than a year, and are offered at vocational or technical schools.

Associate Degree: This degree requires two years of full-time academic work beyond high school.

Bachelor's Degree: This degree requires four or five years of full-time academic work at a college or university.

Master's Degree: This degree requires one to two years of full-time study beyond a bachelor's degree.

Doctoral Degree: This degree usually requires at least three years of full-time study beyond a bachelor's degree.

First Professional Degree: These degrees typically require at least two years of full-time study beyond a bachelor's degree.

Bachelor's or higher degree, plus work experience: These occupations require a bachelor's or higher degree, in addition to work experience in a related non-managerial position.

Employment for Registered nurses is included under Bachelor's degree.

Information is derived using the May 2003 OES Survey, 2002 QCEW and 2002 CES (3/03 Benchmark) data. Unpublished data from the US Bureau of Labor Statistics and US Census Bureau was also used.

To the extent possible, the projections take into account anticipated changes in Wisconsin's economy from 2002 to 2012. It is important to note that unanticipated events may affect the accuracy of these projections.

Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004

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Occupation Projections for South Central Workforce Development Area 2002-2012

Notes:

- (1) Employment is rounded to the nearest ten, with employment less than five rounded to zero. Totals may not add due to rounding. Employment does not include self-employed, unpaid family workers, or railroad employees.
 - (2) Replacements are an estimate of the number of job openings expected because people have permanently left a given occupation. Permanent exits occur if someone dies, retires, or otherwise leaves the labor force. Permanent exits also include openings resulting from someone permanently changing occupations. For example, a person leaves their job as a cashier and becomes a truck driver. Openings resulting from people changing employers, but staying in the same occupation are not included.
 - (3) Total openings are the sum of new jobs and replacements.
 - (4) Typical Education and Training Path gives a general indication of the education or training typically needed in the occupation. There may be other pathways into the occupation, as well as additional educational, training, or licensing requirements.
Short-Term On-the-Job Training: These occupations require no more than one month of on-the-job training and the training usually happens at the workplace.
Moderate-Term On-the-Job Training: Training for these occupations usually occurs at the workplace and lasts from one to twelve months.
Long-Term On-the-Job Training: These occupations require more than one year of on-the-job training, or combined work experience and classroom instruction.
Work Experience in Related Occupation: Occupations in this category require skills and experience gained in other jobs.
Postsecondary Vocational Training: These formal training programs last from a few weeks to more than a year, and are offered at vocational or technical schools.
Associate Degree: This degree requires two years of full-time academic work beyond high school.
Bachelor's Degree: This degree requires four or five years of full-time academic work at a college or university.
Master's Degree: This degree requires one to two years of full-time study beyond a bachelor's degree.
Doctoral Degree: This degree usually requires at least three years of full-time study beyond a bachelor's degree.
First Professional Degree: These degrees typically require at least two years of full-time study beyond a bachelor's degree.
Bachelor's or higher degree, plus work experience: This requires a bachelor's or higher degree, in addition to work experience in a related non-managerial position.
 - (5) Average Annual Salary: An occupation's average hourly wage is calculated by summing the wages of all employees in a given occupation and then dividing by the total number of employees in that occupation. In most cases, the annual average salary is equal to the average hourly wage multiplied by 2,080.
 - (6) Hourly Wage Rate - Middle Range: The middle range identifies the 25th and 75th percentiles in the hourly wage distribution for a given occupation.
Fifty percent of the workers in the occupation earn wages in this range. In most cases, the entry level wage is at or below the 25th percentile.
 - (7) This code is specific to the Occupational Employment Statistics (OES) Survey and is not an official SOC code.
 - (8) 33-2020 includes employment for 33-2021 and 33-2022. Education/training and wages are shown individually, if available.
47-5040 includes employment for 47-5041 and 47-5042. Education/training and wages are shown individually, if available.
51-8010 includes employment for 51-8011, 51-8012, and 51-8013. Education/training and wages are shown individually, if available.
51-9199 includes employment for 51-9141. Education/training and wages are shown individually, if available.
53-6099 includes employment for 53-2022, 53-6011, and 53-6041. Education/training and wages are shown individually, if available.
 - (9) Depending upon the specific position and employer either a bachelor's degree or an associate degree are most common for the occupation of registered nurse.
- * Data is suppressed to preserve the confidentiality of employers. Some occupations with all suppressed data deleted.

Information is derived using the May 2003 OES Survey, 2002 QCEW and 2002 CES (3/03 Benchmark) data. Unpublished data from the US Bureau of Labor Statistics and US Census Bureau was also used.

To the extent possible, the projections take into account anticipated changes in Wisconsin's economy from 2002 to 2012. It is important to note that unanticipated events may affect the accuracy of these projections.

Source: Office of Economic Advisors, Wisconsin Department of Workforce Development, September 2004

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